



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 980 899 447

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Brown, H. JR.	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER NW 1/4 of SECT 7 T-4-N, R-12-W			
03 CITY PEHY Township	04 STATE IL	05 ZIP CODE 62417	06 COUNTY Lawrence	07 COUNTY CODE 101
08 COORDINATES/ LATITUDE 38 47 55	LONGITUDE 087 47 24		Chauncey 7.5' Quad 212	

10 DIRECTIONS TO SITE (Starting from nearest public road)

See Attached Map

III. RESPONSIBLE PARTIES

01 OWNER (if known) Ruth Heath	02 STREET (Business, mailing, residential) R. R. #3			
03 CITY Sumner	04 STATE IL	05 ZIP CODE 62466	06 TELEPHONE NUMBER UNK	
07 OPERATOR (if known and different from owner) H. H. BROWN JR.	08 STREET (Business, mailing, residential) BOX 219			
09 CITY Bridgeport	10 STATE IL	11 ZIP CODE 62417	12 TELEPHONE NUMBER UNK	

13 TYPE OF OWNERSHIP (Check one)

- A. PRIVATE B. FEDERAL: _____ (Agency name) C. STATE D. COUNTY E. MUNICIPAL
 F. OTHER: _____ (Specify) G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

- A. RCRA 3001 DATE RECEIVED: _____ MONTH DAY YEAR B. UNCONTROLLED WASTE SITE (RCRA 103) DATE RECEIVED: _____ MONTH DAY YEAR C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE _____ MONTH DAY YEAR <input checked="" type="checkbox"/> NO	BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____			
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02 SITE STATUS (Check one)

- A. ACTIVE B. INACTIVE C. UNKNOWN

03 YEARS OF OPERATION

ENDING YEAR _____ UNK UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Oily Waste (Toxic)
Heavy Metals (Soluble/Toxic/Persistent)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Ground Water (Population/Environment)
Surface Water (Environment)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Injuries)

- A. HIGH (Inspection required promptly) B. MEDIUM (Inspection required) C. LOW (Inspection on EIS available basis) D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)		03 TELEPHONE NUMBER ()	
04 PERSON RESPONSIBLE FOR ASSESSMENT Richard Lange	05 AGENCY IEPA	06 ORGANIZATION HSCS	07 TELEPHONE NUMBER (217) 782-6760	08 DATE 08 28 88 MONTH DAY YEAR

EPA FORM 2070-12 (7-81)

EPA Region 5 Records Ctr.



298576



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE IL	02 SITE NUMBER 980 899-447

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 756.2 02 OBSERVED (DATE _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
Highly soluble brine waste placed for disposal in unlined lagoon. This practice has impacted private wells at similar facilities.

01 B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: Unk 02 OBSERVED (DATE _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
Ground-water discharge to Surface Water/ Area subject to possible flooding.

01 C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

01 D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

01 E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

01 F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: Unk 02 OBSERVED (DATE _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
Loss of production (Ag land) & damage to soil structure has been noted at similar sites.

(See J following) (See 05 Other following)

01 G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 756.2 02 OBSERVED (DATE _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
See A above

01 H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

01 I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS**

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
IL D 980 899 440

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION *The near sterilization of soils (>5 acres), Attributed to increased soil salinity, has been noted at other similar sites.
(See F Above) (See 05 other following)*

01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION (Include names of species)

01 L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
(Spills runoff standing liquids floating drums)
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION *Site was infrequently inspected by regulatory agencies, Facility has now been backfilled making illegal dumping hard to detect.*

06 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
Denuding of soils by brines is deemed leading cause of soil erosion in several IL counties.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 756

IV. COMMENTS
*BROWN, H JR Information as appears on ERRLS (L-21)
Address Unreported
Bridgeport, IL 62417*

V. SOURCES OF INFORMATION (List specific references, e.g. State files, sample analysis, reports)
S.I.A. study

EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevant to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy metals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by USEPA legal staff seems required. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22

